CLAIMS

What is claimed is:

1	1.	A method for monitoring a messaging system, the method comprising the computer-
2		implemented steps of:
3		receiving, at an endpoint, a message from a first agent for forwarding to the
4		messaging system, wherein the endpoint is registered with the messaging
5		system and is configured to forward incoming messages to the messaging
6		system;
7		determining, by a second agent that is associated with the endpoint, whether the
8		endpoint receives a message notification from the messaging system in
9		response to the message.
1	2.	The method of claim 1, further comprising the computer-implemented step of:
2		if the endpoint receives the message notification, then determining how much time
3		elapses between arrival of the message at the endpoint and reception of the
4		message notification at the endpoint.
1	3.	The method of claim 1, further comprising the computer-implemented step of:
2		attempting to access, by the second agent, a message repository associated with the
3		messaging system.
1	4.	The method of claim 3, further comprising the computer-implemented steps of:
2		upon accessing the message repository, attempting to retrieve the message as e-mail
3		from the message repository using a client application that is associated with
4		the messaging system.

- 1 5. The method of claim 3, further comprising the computer-implemented step of: 2 upon accessing the message repository, attempting to retrieve the message from the 3 message repository. 6. 1 The method of claim 5, wherein the message is an audio message and wherein the 2 method further comprises the computer-implemented step of: 3 upon retrieving the message, playing the message using an interface to the messaging 4 system. 1 7. The method of claim 5, further comprising the computer-implemented steps of: 2 upon retrieving the message, comparing the message retrieved from the message 3 repository with a copy of the message that was sent from the first agent; and 4 based on the comparing, determining whether the message retrieved from the 5 message repository is degraded. 8. 1 The message of claim 1, further comprising the computer-implemented steps of: 2 accessing, by the second agent, a message repository associated with the messaging 3 system; 4 retrieving the message from the message repository; 5 comparing the message retrieved from the message repository with a copy of the 6 message that was sent from the first agent; and 7 based on the comparing, determining whether the message retrieved from the
 - 9. The method of claim 8, further comprising the computer-implemented step of:

message repository is degraded in quality.

8

1

upon determining that the message retrieved from the message repository is degraded, 2 3 determining why the message retrieved from the repository is degraded. 10. The method of claim 1, further comprising the computer-implemented step of: 1 2 registering the first agent and the second agent as telephony endpoints on a network. 1 11. The method of claim 1, wherein the messaging system is a Unified Messaging 2 system. 1 12. The method of claim 1, wherein the message is received from a packet-switched 2 communication network. 1 13. The method of claim 1, wherein the first agent and the second agent are synthetic 2 phones. 1 14. The method of claim 1, wherein the message transmitted from the first agent is an 2 audio message. 15. 1 The method of claim 1, wherein the message transmitted from the first agent is an e-2 mail message.

-35-

The method of claim 1, wherein the message transmitted from the first agent is a

wherein the steps of transmitting include multicasting a signal and multicasting a

message to a plurality of telephony endpoints on a network; and

facsimile message.

The method of claim 1,

1

2

1

2

3

16.

17.

4		wherein the step of determining includes determining, by each of a plurality of agent
5		that are each associated with a respective endpoint of the plurality of
6		endpoints, whether the associated endpoint receives a message notification in
7		response to the message.
1	18.	The method of claim 1, further comprising the step of transmitting after specified
2		intervals.
1	19.	The method of claim 1, wherein the steps of the method are performed at a gateway
2		only.
1	20.	A computer-readable medium carrying one or more sequences of instructions for
2		monitoring a messaging system, which instructions, when executed by one or more
3		processors, cause the one or more processors to carry out the steps of:
4		receiving, at an endpoint, a message from a first agent for forwarding to the
5		messaging system, wherein the endpoint is registered with the messaging
6		system and is configured to forward incoming messages to the messaging
7		system;
8		determining, by a second agent that is associated with the endpoint, whether the
9		endpoint receives a message notification from the messaging system in
10		response to the message.
1	21.	The computer-readable medium of claim 20, wherein the instructions cause the
2		processors to carry out the further step of:

3		if the endpoint receives the message notification, then determining how much time
4		elapses between arrival of the message at the endpoint and reception of the
5		message notification at the endpoint.
1	22.	The computer-readable medium of claim 20, wherein the instructions cause the
2		processors to carry out the further step of:
3		attempting to access, by the second agent, a message repository associated with the
4		messaging system.
1	23.	The computer-readable medium of claim 22, wherein the instructions cause the
2		processors to carry out the further step of:
3		upon accessing the message repository, attempting to retrieve the message as e-mail
4		from the message repository using a client application that is associated with
5		the messaging system.
1	24.	The computer-readable medium of claim 22, wherein the instructions cause the
2		processors to carry out the further step of:
3		upon accessing the message repository, attempting to retrieve the message from the
4		message repository.
1	25.	The computer-readable medium of claim 24, wherein the message is an audio
2		message and wherein the instructions cause the processors to carry out the further
3		step of:
4		upon retrieving the message, playing the message using an interface to the messaging
5		system.

1	26.	The computer-readable medium of claim 24, wherein the instructions cause the
2		processors to carry out the further steps of:
3		upon retrieving the message, comparing the message retrieved from the message
4		repository with a copy of the message that was sent from the first agent; and
5		based on the comparing, determining whether the message retrieved from the
6		message repository is degraded.
1	27.	The computer-readable medium of claim 20, wherein the instructions cause the
2		processors to carry out the further steps of:
3		accessing, by the second agent, a message repository associated with the messaging
4		system;
5		retrieving the message from the message repository;
6		comparing the message retrieved from the message repository with a copy of the
7		message that was sent from the first agent; and
8		based on the comparing, determining whether the message retrieved from the
9		message repository is degraded in quality.
1	28.	The computer-readable medium of claim 27, wherein the instructions cause the
2		processors to carry out the further step of:
3		upon determining that the message retrieved from the message repository is degraded
4		determining why the message retrieved from the repository is degraded.
1	29.	The computer-readable medium of claim 20, wherein the instructions cause the
2		processors to carry out the further step of:
3		registering the first agent and the second agent as telephony endpoints on a network.

1	30.	The computer-readable medium of claim 20, wherein the messaging system is a
2		Unified Messaging system.

- 1 31. The computer-readable medium of claim 20, wherein the message is received from a packet-switched communication network.
- 1 32. The computer-readable medium of claim 20, wherein the first agent and the second agent are synthetic phones.
- 1 33. The computer-readable medium of claim 20, wherein the message transmitted from 2 the first agent is an audio message.
- 1 34. The computer-readable medium of claim 20, wherein the message transmitted from the first agent is an e-mail message.
- 1 35. The computer-readable medium of claim 20, wherein the message transmitted from the first agent is a facsimile message.
- 1 36. The computer-readable medium of claim 20,
- wherein the steps of transmitting include multicasting a signal and multicasting a

 message to a plurality of telephony endpoints on a network; and

 wherein the step of determining includes determining, by each of a plurality of agents

 that are each associated with a respective endpoint of the plurality of
- 7 response to the message.

6

endpoints, whether the associated endpoint receives a message notification in

l.	37.	The computer-readable medium of claim 20, wherein the instructions cause the
2		processors to carry out the step of transmitting after specified intervals.
l	38.	The computer-readable medium of claim 20, wherein the steps of the method are
2		performed at a gateway only.
l	39.	A system for monitoring a messaging system, the system comprising:
2		means for receiving, at an endpoint, a message from a first agent for forwarding to the
3		messaging system, wherein the endpoint is registered with the messaging
4		system and is configured to forward incoming messages to the messaging
5		system;
5		means for determining, by a second agent that is associated with the endpoint,
7		whether the endpoint receives a message notification from the messaging
8		system in response to the message.
l	40.	A system that can monitor a messaging system, the system comprising:
2		a network interface;
3		a processor coupled to the network interface and receiving messages from a network
4		through the network interface;
5		a computer-readable medium comprising one or more stored sequences of
5		instructions which, when executed by the processor, cause the processor to
7		carry out the steps of:
3		receiving, at an endpoint, a message from a first agent for forwarding to the
)		messaging system, wherein the endpoint is registered with the

10	messaging system and is configured to forward incoming messages to
11	the messaging system;
12	determining, by a second agent that is associated with the endpoint, whether
13	the endpoint receives a message notification from the messaging
14	system in response to the message